ABSTRACT OF THE DISCLOSURE

An image processing apparatus includes a first calculating unit that calculates a first feature amount from a color image signal, a first processing unit that processes the color image signal based on the first feature amount to generate a processed signal, a compressing unit that compresses the processed signal to generate a compressed signal, a storage unit that stores the compressed signal, a decompressing unit that decompresses the compressed signal to generate a decompressed signal, a second calculating unit that calculates a second feature amount from the decompressed signal, and a second processing unit that processes the decompressed signal based on the second feature amount. The second feature amount is multinary.